

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A polymer gel composition, comprising:
 at least two polymer compounds which interact with each other to form a polymer complex, and ~~;~~ and
 a liquid; ~~;~~
 wherein:
 one of the polymer compounds forms a three-dimensional crosslinked structure, wherein the three-dimensional crosslinked structure is in a particle shape;
 at least one other polymer compound is ~~compatible with~~ at least partially soluble in the liquid; and
 at least a portion of the ~~compatible~~ at least partially soluble polymer compound is included in the three-dimensional crosslinked structure.
2. (Currently Amended) The A-polymer gel composition according to claim 1, wherein the polymer complex is reversibly disassembled by a stimulus so that the polymer compound forming the three-dimensional crosslinked structure exhibits a change in volume by absorbing or releasing the liquid.
3. (Canceled)
4. (Currently Amended) The A-polymer gel composition according to claim 2, wherein the stimulus is heat.
5. (Currently Amended) The A-polymer gel composition according to claim 1, wherein the polymer complex has a phase transition temperature of -5°C to 80°C.
6. (Currently Amended) The A-polymer gel composition according to claim 1, wherein at least one of the polymer compounds forming the polymer complex includes a

carboxylic amide group, and at least one other polymer compounds includes a carboxyl group.

7. (Currently Amended) The A-polymer gel composition according to claim 1, wherein the polymer compound forming the three-dimensional crosslinked structure has at least one ionic substituent.

8. (Currently Amended) The A-polymer gel composition according to claim 1, wherein a portion of the polymer compound ~~compatible with~~ at least partially soluble in the liquid has a crosslinked structure.

9. (Currently Amended) The A-polymer gel composition according to claim 1, wherein a portion of the polymer compound ~~compatible with~~ at least partially soluble in the liquid has a continuous crosslinked structure, which includes a plurality of polymer compounds forming the three-dimensional crosslinked structure.

10. (Currently Amended) The A-polymer gel composition according to claim 1, further comprising an additional polymer compound including a continuous crosslinked structure, which contains a plurality of the three-dimensional crosslinked structures and at least one polymer compound which interacts with the three-dimensional crosslinked structure to form a polymer complex.

11. (Currently Amended) The A-polymer gel composition according to claim 1, wherein the polymer compound forming the three-dimensional crosslinked structure includes a light-modulating material.

12. (Currently Amended) An optical device, ~~using~~ comprising a polymer gel composition, the polymer gel comprising:

_____ at least two polymer compounds which interact with each other to form a polymer complex; and

_____ a liquid;

_____ wherein:

_____ one of the polymer compounds forms a three-dimensional crosslinked structure;

_____ at least one other polymer compound is ~~compatible with~~ at least partially soluble in the liquid; and

_____ at least a portion of the ~~compatible~~ at least partially soluble polymer compound is included in the three-dimensional crosslinked structure.

13. (Original) An optical device, comprising: a pair of substrates; and a polymer gel composition disposed between the pair of substrates, ends to the substrates being sealed, wherein

the polymer gel composition comprises: at least two polymer compounds which interact with each other to form a polymer complex; and a liquid, and one of the polymer compounds forms a three-dimensional crosslinked structure;

at least one other polymer compound is ~~compatible with~~ at least partially soluble in the liquid; and

at least a portion of the ~~compatible~~ at least partially soluble polymer compound is included in the three-dimensional crosslinked structure.

14. (New) The polymer gel composition according to claim 1, wherein the at least one other polymer compound is entirely soluble in the liquid.

15. (New) The optical device according to claim 12, wherein the at least one other polymer compound is entirely soluble in the liquid.

16. (New) The optical device according to claim 13, wherein the at least one other polymer compound is entirely soluble in the liquid.